## Amendments to the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

Claim 1 (currently amended): An endodontic fiber suitable for the local delivery and sustained release of one or more medicaments incorporated therein to an intracanal treatment site, comprising a rigid polymer vehicle having incorporated therein one or more medicaments, wherein said endodontic fiber is capable of being positioned deep within a root canal to enable said one or more medicaments to act locally at a site of deep bacterial infection and wherein said endodontic fiber comprises a dose of said one or more medicaments of about 2.0 mg to about 5.0 mg per 10 mm of fiber the fiber has a size and shape suitable for placement in a root canal.

Claim 2 (previously presented): The endodontic fiber of Claim 1, wherein the medicament is selected from the group consisting of antibiotics, anti-inflammatory agents, antimicrobial agents, immune reagents, immunomodulatory agents, and combinations thereof.

Claim 3 (previously presented): The endodontic fiber of Claim 2, wherein the medicament is an antibiotic selected from the group consisting of clindamycin, tetracycline and combinations thereof.

Claim 4 (previously presented): The endodontic fiber of Claim 1, wherein the polymer vehicle is an ethylene vinyl acetate copolymer having a diameter of from about 0.1 mm to about 2.0 mm and the medicament is clindamycin incorporated at a dose of about 2.0 mg to about 5.0 mg per 10 mm of fiber.

Claim 5 (original): The endodontic fiber of Claim 2, wherein the medicament comprises a combination of an antibiotic and an anti-inflammatory agent.

Claim 6 (currently amended): A modified periodontal fiber suitable for the delivery and sustained release of one or more medicaments medicament incorporated therein to an intracanal treatment site, comprising a rigid polymer vehicle having incorporated therein one or more medicaments, wherein the polymer is treated to decrease its surface tackiness, wherein said endodontic fiber is capable of being positioned deep within a root canal to enable said one or more medicaments to act locally at a site of deep bacterial infection, and wherein said endodontic fiber comprises a dose of said one or more medicaments of about 2.0 mg to about 5.0 mg per 10 mm of fiber and wherein the fiber has a size and shape suitable for placement in a root canal.

Claim 7 (currently amended): A method for the local delivery and sustained release of <u>one or more medicaments</u> a medicament to an intracanal treatment site comprising:

- (a) obtaining an endodontic fiber suitable for intracanal use having one or more medicaments incorporated therein, wherein said endodontic fiber comprises a rigid polymer composition;
- (b) positioning the fiber of (a) in the root canal such that the fiber is in direct contact with the treatment site; and
- (c) maintaining the fiber at the treatment site, wherein the <u>one or</u>

  <u>medicaments are medicament is delivered to the treatment site at a controlled rate;</u>

wherein said endodontic fiber is capable of being positioned deep within a root canal to enable said one or more medicaments to act locally at a site of deep bacterial infection, and wherein said endodontic fiber comprises a dose of said one or more medicaments of about 2.0 mg to about 5.0 mg per 10 mm of fiber.

Claim 8 (original): The method of Claim 7, wherein the endodontic fiber is a modified periodontal fiber or an intracanal fiber.

Claim 9 (currently amended): A method of treating an endodontic bacterial infection comprising the steps of:

- (a) obtaining an endodontic fiber suitable for intracanal use having one or more medicaments incorporated therein, wherein said endodontic fiber comprises a rigid polymer composition;
- (b) positioning the fiber of (a) into a root canal such that the fiber is in direct contact with a treatment site in the root canal; and

(c) maintaining the fiber at the treatment site, wherein the one or more medicaments are delivered to the treatment site at a controlled rate;

wherein said endodontic fiber is capable of being positioned deep within a root canal to enable said one or more medicaments to act locally at a site of deep bacterial infection, and wherein said endodontic fiber comprises a dose of said one or more medicaments of about 2.0 mg to about 5.0 mg per 10 mm of fiber.

Claim 10 (original): The method of Claim 9, wherein the endodontic fiber is a modified periodontal fiber or an intracanal fiber.

Claim 11 (currently amended): A method of disinfecting a root canal receiving endodontic treatment comprising:

- (a) obtaining an endodontic fiber suitable for intracanal use having one or more medicaments incorporated therein, wherein said endodontic fiber comprises a rigid polymer composition;
- (b) inserting the fiber of (a) into a debrided and irrigated root canal such that the fiber is in direct contact with a treatment site in the root canal; and
- (c) maintaining the fiber at the treatment site, wherein the <u>one or more</u>

  medicaments are medicament is administered to the treatment site at a controlled rate;

wherein said endodontic fiber is capable of being positioned deep within a root canal to enable said one or more medicaments to act locally at a site of deep bacterial infection, and wherein said endodontic fiber comprises a dose of said one or more medicaments of about 2.0 mg to about 5.0 mg per 10 mm of fiber.

Claim 12 (original): The method of Claim 11, wherein the endodontic fiber is a modified periodontal fiber or an intracanal fiber.

Claim 13 (currently amended): A method of reducing inflammation in periapical tissue of a tooth undergoing endodontic treatment, comprising:

- (a) obtaining an endodontic fiber suitable for intracanal use having incorporated therein an anti-inflammatory agent, wherein said endodontic fiber comprises a rigid polymer composition;
- (b) positioning the fiber of (a) into a treatment site in a debrided and irrigated root canal such that the fiber is in direct contact with an inflamed tissue in the root canal; and
- (c) maintaining the endodontic fiber at the treatment site, wherein the antiinflammatory agent is delivered to the site of inflammation at a controlled rate;

wherein said endodontic fiber is capable of being positioned deep within a root canal to enable said one or more medicaments to act locally at a site of deep bacterial infection, and wherein said endodontic fiber comprises a dose of said one or more medicaments of about 2.0 mg to about 5.0 mg per 10 mm of fiber.

Claim 14 (original): The method of Claim 13, wherein the endodontic fiber is a modified periodontal fiber or an intracanal fiber.

Claim 15 (previously presented): The endodontic fiber of claim 1, wherein said polymer vehicle comprises an ethylene vinyl acetate copolymer comprising less than about 20% vinyl acetate by weight.

Claim 16 (previously presented): The endodontic fiber according to Claim 15, comprising less than about 15% vinyl acetate by weight.

Claim 17 (previously presented): The endodontic fiber according to Claim 15, comprising less than about 10% vinyl acetate by weight.

Claim 18 (previously presented): The endodontic fiber according to Claim 15, comprising about 9.3% vinyl acetate by weight.

Claim 19 (previously presented): The endodontic fiber according to Claim 15, having a diameter of less than about 0.5 mm.

Claim 20 (previously presented): The endodontic fiber according to Claim 18, having a diameter of less than about 0.5 mm and one or more medicament incorporated therein.

Claim 21 (previously presented): The endodontic fiber of claim 1, wherein said fiber is impregnated with said one or more medicaments.

Claim 22 (previously presented): The modified periodontal fiber of claim 6, wherein said fiber is impregnated with said one or more medicaments.

Claim 23 (previously presented): The method of claim 7, wherein said fiber is impregnated with said one or more medicaments.

Claim 24 (previously presented): The method of claim 9, wherein said fiber is impregnated with said one or more medicaments.

Claim 25 (previously presented): The method of claim 11, wherein said fiber is impregnated with said one or more medicaments.

Claim 26 (previously presented): The method of claim 13, wherein said fiber is impregnated with said one or more medicaments.

Claim 27 (previously presented): The endodontic fiber of claim 15, wherein said fiber is impregnated with said one or more medicaments.

Claim 28 (new): The endodontic fiber of claim 1, wherein said fiber has a rigidity similar to traditional gutta percha points.

Claim 29 (new): The modified periodontal fiber of claim 6, wherein said fiber has a rigidity similar to traditional gutta percha points.

Claim 30 (new): The method of claim 7, wherein said fiber has a rigidity similar to traditional gutta percha points.

Claim 31 (new): The method of claim 9, wherein said fiber has a rigidity similar to traditional gutta percha points.

Claim 32 (new): The method of claim 11, wherein said fiber has a rigidity similar to traditional gutta percha points.

Claim 33 (new): The method of claim 13, wherein said fiber has a rigidity similar to traditional gutta percha points.

Claim 34 (new): The endodontic fiber of claim 15, wherein said fiber has a rigidity similar to traditional gutta percha points.